

## ABSTRACT OF THE DISCLOSURE

A method of predicting a tumor of the auditory nerve based on the latency of the auditory brainstem response (ABR) in the presence of a tumor. The ABR is masked using white noise and derived bands are calculated. The wideband (WB) response is also recorded. The derived bands are transformed and summed to form a SUM, and the transform of the WB is also taken. The ratio SUM/WB is taken, and the result is compared to normal ratios to predict the presence of a tumor.